

## Progress Report

**Progress Report # 006**

**Reporting Period: July 1 – October 31, 2007**

**Submittal Date: November 13, 2007**

**Agreement No: 05-230-55-0**

**Project Name: ASBS Planning Program - Integrated Coastal Watershed Management (ICWM) Plan**

**Contractor Name: City of Newport Beach**

**Program Director/Designated Representative: Dave Kiff /Robert Stein**

### **Summary of Work Completed During This Reporting Period**

<u>Task</u>	<u>Deliverable by Subtask #</u>	<u>Due Date</u>	<u>% of Work Complete</u>	<u>Date Submitted</u>
1.0 PAEP, Monitoring Plan, QAPP and CEQA	1.1 Project Assessment and Evaluation Plan	6/06		
	1.2 Monitoring Plan	10/06		
	1.3 Quality Assurance Plan	10/06	100%	
	1.4 California Environmental Quality Act	2/07	100%	
2.0 WORK TO BE PERFORMED BY GRANTEE				
2.1 Plan Preparation Activities (Consultant: Weston Solutions) (100% complete)	2.1.1 Gather Information	5/06	100%	9/06
	2.1.2 ICWMP TAC meetings	6/06	100%	
	2.1.3 Agency meetings	6/06	100%	
	2.1.4 ICWMP timeline	6/06	100%	
	2.1.5 Identify subcontractors	6/06	100%	11/06
2.2 Public Use Impact Report (Consultant: Coastal Resources)	2.2.1 Review Background Data and Reports	6/06	100%	5/07
	2.2.2 Public Use Report	8/07	20%	
2.3 Urban Runoff Flow and Water Quality Assessment (Consultant: Weston Solutions)	2.3.1 Review baseline data (in progress)	03/08	750%	
	2.3.2 Review and collect water quality data (in progress)	03/08	50%	
	2.3.3 Drainage Area Water Quality Assessment Reports	7/06		

2.4 Cross-Contamination Impacts (Consultant: Everest International Consultants)	2.4.1 Review previous Newport Coast and Laguna Beach watershed reports	8/06	100%	4/07
	2.4.2 Review existing coastal watershed program, marine habitat sites and monitoring programs	8/06	100%	4/07
	2.4.3 Establish range of loading rates for specific constituents	9/06	100%	
	2.4.4 Review water quality data for CCA #69	8/06	100%	
	2.4.5 Review sediment discharge data	8/06	100%	
	2.4.6 Review longshore current and pollutant transport data	8/06	100%	
	2.4.7 Pollutant Loading Report (* report includes results from Tasks 2.4.3 to 2.4.7.)	10/06	95%	12/07*
	2.4.8 Expand GIS database	2/07	100%	
	2.4.9 Prepare the hydrodynamic and water quality model	11/06	100%	
	2.4.10 Estimate typical currents using the model	12/06	100%	
	2.4.11 Prepare a Particle Tracking Analysis	1/07	90%	
	2.4.12 Draft Cross-Contamination Impact Report	2/07		
	2.4.13 Final Cross-Contamination Impact Report	3/07		
2.5 ASBS Research and Data Collection and Pilot Renovation Program (Consultants: Weston Solutions, UCI and Cal-State Fullerton)	2.5.1 Review data from other marine protection areas.	7/06	100%	5/07
	2.5.2 Review flow and water quality report from the Cities of Newport Beach and Laguna Beach	7/06	50%	
	2.5.3 Define a toxicological study	3/08	70%	
	2.5.4 Conduct the toxicological study	3/08	50%	
	2.5.5 Define ASBS baseline information. Prepare a monitoring mitigation plan (MMP). Define a comparison study with a reference ASBS	3/08	100%	
	2.5.6 Implement MMP and Comparison Study	11/06	50%	
	2.5.7 Define a Pilot Renovation Experiment	5/07		
	2.5.8 Implement a Pilot Renovation Experiment	03/08		
	2.5.9 Add ASBS's to Mineral Management Services tracking program			

2.6 Coordinate Elements into ICWMP (Consultant: Weston Solutions)	2.6.1 Develop metric	9/06	50%	
	2.6.2 Draft Integrated Coastal Watershed Management Plan (ICWMP)	11/07	100%	
	2.6.3 TAC review of ICWMP	12/07	25%	
	2.6.4 Final ICWMP	2/08		
2.7 CEQA Documentation and Permits (Consultants: Cal-State Fullerton and Weston Solutions) (100% complete)	2.7.1 Obtain list of required Permits, CEQA	2/072/07	100%	1/07
	2.7.2 Submit permits, CEQA		100%	
2.8 Community Outreach and Agency Training (City is the lead on this task) +	2.8.1 Submit website information	10/07		
	2.8.2 Public Forums	8/07	85%	
	2.8.3 Training Manuals	12/07		

## Introduction

The Work Plan is focused on identifying and quantifying those environmental impacts having the most deleterious effects on the water quality and habitat of the ASBS and then preparing an Integrated Coastal Watershed Management Plan (ICWMP) to mitigate these deleterious effects.

## **Task Accomplishments (July 1 – October 31, 2007)**

This section describes specific tasks accomplished during this period.

### **Task 1.0 Project Assessment and Evaluation Plan, Monitoring Plan, Quality Assurance Project Plan and California Environmental Quality Act (85% complete)**

The QAPP and PAEP are complete. The Evaluation will be prepared at the end of the assessment.

### **Task 2.1 Plan Preparation Activities (100% complete)**

Task completed.

### **Task 2.2 Public Use Impact Report (75% complete)**

Rick Ware of Coastal Resources is conducting the Public Use study. The public use studies are continuing at Little Corona and Heisler Park, followed by Crystal Cove and Morning Canyon.

About three quarters of the 120 public use surveys have been conducted. Surveys are scheduled to continue for the rest of the year.

### **Task 2.3 Urban Runoff Flow and Water Quality Assessment (60% complete)**

An initial deployment of mussels occurred in January 2007. A late-season storm in April 2007 that brought significant wave action to the Newport Coast dislodged the out-planted mussels at all five of the monitoring locations. A second set of mussels were deployed using alternative attachment techniques in July 2007. One half of the deployed mussels were harvested in late October 2007 (after three months of deployment during primarily

dry weather conditions) and the remainder will be harvested in January 2008 after a total of six months field deployment.

#### **Task 2.4 Cross Contamination Impacts (70% complete)**

Very good progress has been made on this task. Everest has developed a method to use the limited pollutant loading data for the cross-contamination modeling. It's based on using the average pollutant concentration of the harbor and the flow data to estimate the pollutant loadings discharging from the harbor to the coastal areas. Everest has completed the particle tracking analyses and the cross-contamination mixing modeling and is currently preparing the draft cross-contamination report. The general findings of the cross-contamination study include:

- Hydrodynamic conditions are suitable to transport potential pollutants from the harbor to ASBS 32 and ASBS 33. The magnitude of the impact of the pollutants from the Harbor to the ASBSs would depend on the pollutant loadings from the Harbor.
- Discharges from Buck Gully and Morning Canyon are affected by the tidal flow through the harbor inlets. Under certain conditions, pollutants discharging from these two creeks may impact the Harbor.
- Discharges from the coastal creeks in general would only impact the nearby coastal areas.

#### **Task 2.5 ASBS Research and Data Collection and Pilot Renovation Program (60% complete)**

The field work for Cal-State Fullerton's rockweed renovation program is about 50% complete. The different transplant scenarios are being monitored and some modifications to the investigation have been made based on the initial findings. Details or the program are as follows:

A complete survey of each location is being conducted every two weeks. Digital images of the transplants are generally obtained and imported into a software package for estimating aerial coverage of the rockweed. After three months, a preliminary analysis of growth and survivorship was made. Six months following the initial renovation effort, the handling and attachment techniques that appear to be most successful based on preliminary results will be assessed by California State University, Fullerton and Weston and further restoration efforts will be adjusted as necessary.

#### **Task 2.6 Coordinate Elements into Integrated Coastal Watershed Management Plan (90% complete)**

Weston has submitted a final draft watershed management plan (WMP) that incorporates the emerging data and findings of the ASBS assessments. This document is ready for review by the TAC. Copies will be distributed in November 2007. Comments will be required prior to the end of 2007. The final WMP will be submitted in January 2008.

#### **Task 2.7 CEQA Documentation and Permits (100% complete)**

#### **Task 2.8 Community Outreach and Agency Training (XX% complete)**

**Program Schedule**

The field studies will not be completed until August 2008. While very good progress has been made, this is three or 4 months behind the schedule as originally envisioned. The final analyses and reports are anticipated to take 4 to 5 months to complete. Therefore, the tasks under the grant are not anticipated to be complete before August 1, 2008 and a contract extension will be requested.

**Project Budget**

Contracts for tasks to be performed by consultants have all been executed within the anticipated budget. The City has issued a budget amendment to Weston Solutions to install the ADCP outside the Harbor Jetty at a cost of \$50,000. A separate contract is in progress with the Corona del Mar High School for the medication of the AP Environmental Science class at a cost of \$14,500. These costs are being absorbed by the City.

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_